Consumer Confidence Report – 2010

City of Great Falls Public Drinking Water Supply

P.O. Box 5021, Great Falls, MT 59403 Phone (406) 727-1325

This report is prepared annually by the City of Great Falls Water Utility. Its purpose is to evoke confidence in the quality of our municipal drinking water. Please take a few minutes to review it and feel free to call us with any questions.

The source of our water

The drinking water used by the residents of Great Falls, Malmstrom Air Force Base and Black Eagle is water that was pumped from the Missouri River and treated to make it safe to drink. The water treatment facility is located just upstream from the Missouri's confluence with the Sun River in Great Falls.

Water treatment and purification

Great Falls utilizes a conventional water treatment process, producing on average 4.5 billion gallons of safe drinking water per year. The process is monitored continuously and samples of treated water are collected and analyzed. Only after careful scrutiny is water allowed to flow through underground water mains to reservoirs for use in homes and businesses.

City water personnel stay abreast of new Federal and State drinking water regulations as they are written so that treatment and/or monitoring changes can be implemented as needed in a timely and cost-effective manner. The City is committed to the goal of providing its citizens with a safe and dependable supply of drinking water. This goal was achieved during 2010 by operating without any violations, exemptions or variances regarding water quality.

"I am pleased to report that our drinking water meets all federal and state requirements and is among the safest and best-tasting in the world."

-- John Wandke, City Water Quality Specialist

Are there contaminants in our source water?

Water that precipitates from the atmosphere flows across the surface of the land or percolates through the soil. Naturally occurring minerals dissolve and waste substances produced by plants, animals and humans are picked up. The water then either becomes groundwater or makes its way to a stream, river, pond, lake or reservoir. This accumulated water can then be used as a drinking water source.

Contaminants that may need to be removed from a source water before it can be considered safe to drink include:

- microbial contaminants, including viruses, bacteria and protozoa. These can originate from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- inorganic contaminants, such as salts and metals. These can be naturally occurring or the result of urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- pesticides and herbicides. These may come from a variety of sources including agriculture, urban storm water runoff and residential uses.

- organic chemical contaminants, including synthetic and volatile organic chemicals. These are by-products of industrial processes and petroleum production and can also come from gas stations, urban storm water runoff and septic systems.
- radioactive contaminants. These can be naturally occurring or the result of oil and gas production or mining activities.

Montana's Department of Environmental Quality (DEQ) recently completed and made available the Great Falls source water delineation and assessment report. This report delineates a source water protection area for Great Falls (an area of surface water and land that contributes water to the Great Falls Public Water Supply). It also identifies locations or regions within this area where contaminants might be generated, stored or transported and addresses their relative potential for contaminating Great Falls drinking water. The report can be used to develop a source water protection plan for Great Falls.

Do I need to take special precautions?

The Environmental Protection Agency diligently establishes regulations setting allowable limits for contaminants in drinking water delivered by public water systems. The Food and Drug Administration regulates contaminants in bottled water, affording equivalent protection to public health. Any drinking water may be reasonably expected to contain allowable amounts of some contaminants. It's important to remember that the presence of these contaminants does not necessarily mean the water will pose a health risk. Detailed information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791) or our local City-County Health Department (454-6950).

Certain people may be more vulnerable to contaminants in drinking water than the general population. For example, immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, persons having HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections caused by certain microbiological contaminants. These people should seek advice about their drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

How can I become involved?

You can learn more about your local water utility by attending any of the regularly scheduled City Commission meetings on the first and third Tuesdays of every month at 7:00 p.m. in the Commission Chambers at the Great Falls Civic Center. You may also arrange a tour of the local water treatment plant by calling 727-1325. Regulatory updates and other interesting information can be found by visiting the American Water Works Association web site at http://www.awwa.org.

Questions & Answers

Q: How often is our drinking water tested?

A: The type and frequency of testing required is based on the water's source and the number of people served. Great Falls is classified as a medium-sized (between 50,000 and 100,000 served) surface water (Missouri River) community public water supply. As such, Great Falls is required to monitor the levels of some drinking water constituents, such as disinfectant residual, continuously while other constituents, such as radionuclides, are required to be tested only once every several years. The data presented in the tables contained in this report are the results from the most recent testing done in accordance with the applicable regulations.

Q: Why does the water coming out of my tap look milky sometimes but then clear up in my glass after a few seconds?

A: The water coming into your home may contain harmless dissolved gases (air) held in solution by the pressure of the water system. As the water leaves the tap the pressure rapidly decreases causing millions of tiny air bubbles to be suspended in the water, producing the milky appearance. The water then clears from the bottom of the container as the air bubbles rise and return to the atmosphere.

Q: How hard is Great Falls water?

A: Great Falls water is classified as moderately hard, ranging from 127 to 167 milligrams per liter (7.4 to 9.8 grains per gallon) as calcium carbonate. Some households install water softeners as a matter of personal preference but softening is generally not necessary.

Some Facts About Water

Of the 326 million cubic miles of water on earth, 97% is seawater. Of the remaining 3%, 77% is frozen and 22% is underground. This leaves each person on our planet enough liquid fresh surface water to fill a cube 130 feet on a side. But the water is not evenly distributed and is in constant demand.

One gallon of water weighs about 81/2 pounds.

Average total water use (both indoor and outdoor) for a typical single-family home is about 100 gallons per person per day.

You can fill an 8-ounce glass with drinking water 15,000 times for the same cost as a six-pack of soda.

You can survive about a month without food, but only 5 to 7 days without water.

Water Analysis Data

The data tables on the next several pages contain terms and abbreviations with which you may be unfamiliar. In order to help you better understand this data we offer the following definitions and explanations:

parts per million (ppm) or milligrams per liter (mg/l) - one part per million is equivalent to one minute in two years or one penny in \$10,000.

parts per billion (ppb) or micrograms per liter ($\mu g/l$) - one part per billion is equivalent to one minute in 2,000 years or one penny in \$10,000,000.

picocuries per liter (pCi/l) - a measure of radioactivity in water

millirems per year (mrem/yr) - a measure of radiation exposure. In the United States, the average person is exposed to an effective dose equivalent of approximately 360 mrem (whole body exposure) per year from all sources.

Nephelometric Turbidity Unit (NTU) - a measure of the clarity of water. Water having turbidity in excess of 5 NTU would appear noticeably cloudy to the average person.

Maximum Contaminant Level Goal - the "Goal" (MCLG) is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Contaminant Level - the "Maximum Allowed" (MCL) is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Residual Disinfection Level Goal or MRDLG - the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Maximum Residual Disinfection Level or MRDL - the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Treatment Technique (TT) - a required process intended to reduce the level of a contaminant in drinking water.

The City of Great Falls routinely monitors for contaminants in drinking water according to Federal and State laws. The four data tables included in this report document the test results from monitoring during the period January 1st through December 31st, 2010. The State of Montana requires monitoring for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Therefore some of the following data, though representative, are more than one year old. The tables are arranged as follows:

Table I. Regulated Contaminants Detected
Table II. Unregulated Contaminants Detected
Table III. Regulated Contaminants Not Detected
Table IV. Unregulated Contaminants Not Detected

Additional copies of this report are available free of charge from the Great Falls Water Treatment Plant. If you have any questions about this report or your water utility contact John Wandke at (406) 727-1325.

Contaminant	Likely Source of Contamination	Unit of	aminants	MCLG	Date	Level	Violation
A STATE OF THE PROPERTY OF THE	Pikely source of Contamination	Measurement	MICL	MICINI	Sampled	Detected	(yes/no)
Arsenic	erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes	ppb	10	0	2/22/10	2	no
Fluoride	erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories	ppm	4	4	2/22/10	0.7 (all of it naturally- occurring)	no
Nitrate plus Nitrite (as Nitrogen)	runoff from fertilizer use; leach- ing from septic tanks, sewage; erosion of natural deposits	ppm	10	10	2/22/10	0.17	no
Lead Note: In a sample collected 2/22/10, no lead was detected in the treated water as it left the water treatment plant.	corrosion of household plumbing systems; erosion of natural deposits	ppb	AL = 15 90 th percentile level must be less than 15	15	30 tests from high- risk* homes during July, August and September, 2010	5 @ 90 th percentile (see below) one site was ≥ 15 ppb	no
Copper Note: In a sample collected 2/22/10, no copper was detected in the treated water as it left the water treatment plant.	corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives	ppm	AL = 1.3 90 th percentile level must be less than 1.3	1.3	30 tests from high- risk* homes during July, August and September, 2010	0.38 @ 90 th percentile (see below) one site exceeded 1.3 ppm	no
FAD AND COPPER RULL	E SAMPLING SUMMARY (trien	nial samples)			Lead	Copper	
	- STATE WALLS OF STREET			Lorent CASSENCE	มารายกระบ ริกษัตร์ นี้ นี้สู่เม่ามะได้		
Note:				Site	Range	Range	
Note: Each sample collected for lega	l analysis was also analyzed for con	mer In this ren	ort the sites are	Site Rankino	Range high to low	Range high to low	
Each sample collected for lead	l analysis was also analyzed for cop			Site Ranking	high to low	high to low	
Each sample collected for lead separately numbered 1-30 base	ed on descending levels of lead or c	opper, that is, th		Ranking 1	high to low	high to low 2.75	
Each sample collected for lead separately numbered 1-30 base		opper, that is, th		Ranking 1 2	high to low 37 14	2.75 0.89	
Each sample collected for lead separately numbered 1-30 base	ed on descending levels of lead or c	opper, that is, the level of copper.	e site having	Ranking 1 2 3	37 14 7	2.75 0.89 0.52	
Each sample collected for lead separately numbered 1-30 base	ed on descending levels of lead or c	opper, that is, the level of copper.		Ranking	14 7 5	2.75 0.89 0.52 0.38	
Each sample collected for lead separately numbered 1-30 base	ed on descending levels of lead or c	opper, that is, the level of copper.	e site having	Ranking 1 2 3	37 14 7	2.75 0.89 0.52	
Each sample collected for lead separately numbered 1-30 bass he highest level of lead did no * The 1994 Federal Lead & Co	ed on descending levels of lead or c t necessarily also have the highest l opper Rule mandates a household te	opper, that is, the vel of copper. 90th percenting program f	ne site having entile levels → for these	Ranking	14 7 5	2.75 0.89 0.52 0.38	
Each sample collected for lead separately numbered 1-30 bass the highest level of lead did no * The 1994 Federal Lead & Co substances. Under the provisi	ed on descending levels of lead or c t necessarily also have the highest l opper Rule mandates a household te ons of the Lead & Copper Rule high	opper, that is, the evel of copper. 90th percenting program for isk sites inclu	e site having entile levels for these de, but are not	Ranking 1 2 3 4 5	37 14 7 5 5	10 high to low 2.75 0.89 0.52 0.38 0.37	
Each sample collected for lead separately numbered 1-30 bass he highest level of lead did no * The 1994 Federal Lead & Co substances. Under the provision imited to, single-family resides	ed on descending levels of lead or c t necessarily also have the highest l opper Rule mandates a household te ons of the Lead & Copper Rule high nces served by a lead service line, h	opper, that is, the evel of copper. 90th percenting program for isk sites included aving interior le	e site having entile levels for these de, but are not end piping or	Ranking 1 2 3 4 5 6	37 14 7 5 5 4	1.00	
Each sample collected for lead separately numbered 1-30 bass he highest level of lead did no "The 1994 Federal Lead & Co substances. Under the provision imited to, single-family residen taving lead-soldered copper p	ed on descending levels of lead or c t necessarily also have the highest l opper Rule mandates a household te ons of the Lead & Copper Rule high nces served by a lead service line, h ipe installed after 1982 but prior to	opper, that is, the evel of copper. 90th percenting program for isk sites included aving interior leading is an analysis ban and a second contana's ban	entile levels for these de, but are not ead piping or on lead solder,	Ranking 1 2 3 4 5 6 7 8	37 14 7 5 5 4 3 3	2.75 0.89 0.52 0.38 0.37 0.36 0.34	
Each sample collected for lead separately numbered 1-30 bass he highest level of lead did no "The 1994 Federal Lead & Co substances. Under the provision imited to, single-family residen which began December 31, 190 which began December 31, 190	ed on descending levels of lead or c t necessarily also have the highest l opper Rule mandates a household te ons of the Lead & Copper Rule high nces served by a lead service line, h ipe installed after 1982 but prior to 87. According to the Rule, 90% of t	opper, that is, the evel of copper. 90th percenting program for isk sites included aving interior leading to the samples from	entile levels -> for these de, but are not ead piping or on lead solder, a high-risk	Ranking 1 2 3 4 5 6 7 8 9	37 14 7 5 5 4 3 3 3	2.75 0.89 0.52 0.38 0.37 0.36 0.34 0.34 0.30	
Each sample collected for lead separately numbered 1-30 bass he highest level of lead did no * The 1994 Federal Lead & Co substances. Under the provision imited to, single-family residen having lead-soldered copper po which began December 31, 190	ed on descending levels of lead or c t necessarily also have the highest l opper Rule mandates a household te ons of the Lead & Copper Rule high nces served by a lead service line, h ipe installed after 1982 but prior to	opper, that is, the evel of copper. 90th percenting program for isk sites included aving interior leading to the samples from	entile levels -> for these de, but are not ead piping or on lead solder, a high-risk	Ranking 1 2 3 4 5 6 7 8 9 10	37 14 7 5 5 4 3 3 3 3	10 high to low 2.75 0.89 0.52 0.38 0.37 0.36 0.34 0.34 0.30 0.29	
Each sample collected for lead separately numbered 1-30 bass he highest level of lead did no "The 1994 Federal Lead & Co substances. Under the provision imited to, single-family resides having lead-soldered copper powhich began December 31, 190 nomes must have lead levels le	ed on descending levels of lead or c t necessarily also have the highest l opper Rule mandates a household te ons of the Lead & Copper Rule high nces served by a lead service line, h ipe installed after 1982 but prior to 87. According to the Rule, 90% of t ss than 15 ppb and copper levels les	opper, that is, the evel of copper. 90th percenting program for isk sites included aving interior leading to the samples from the samples fro	entile levels -> for these de, but are not ead piping or on lead solder, a high-risk	Ranking 1 2 3 4 5 6 7 8 9 10 11	37 14 7 5 5 4 3 3 3 3 2	10 high to low 2.75 10.89 10.52 10.38 10.37 10.36 10.34 10.30 10.29 10.24 10.275 10.89 10.89 10.89 10.89 10.80	
Each sample collected for lead separately numbered 1-30 bass he highest level of lead did no "The 1994 Federal Lead & Co substances. Under the provision imited to, single-family resident to aving lead-soldered copper powhich began December 31, 190 tomes must have lead levels les	ed on descending levels of lead or c t necessarily also have the highest l opper Rule mandates a household te ons of the Lead & Copper Rule high nces served by a lead service line, h ipe installed after 1982 but prior to 87. According to the Rule, 90% of t ss than 15 ppb and copper levels les vater that had remained within the b	opper, that is, the evel of copper. 90th percenting program for isk sites included aving interior leading is the samples from the samples interior interior in the samples interior in the samples from the samples from the samples interior interior in the samples interior in the samples interior in the samples interior in the samples	entile levels -> For these de, but are not end piping or on lead solder, a high-risk or plumbing for	Ranking 1 2 3 4 5 6 7 8 9 10 11 12	14 7 5 5 4 3 3 3 3 2 2 2	10 high to low 2.75 0.89 0.52 0.38 0.37 0.36 0.34 0.30 0.29 0.24 0.22	
Each sample collected for lead separately numbered 1-30 bass he highest level of lead did no * The 1994 Federal Lead & Co substances. Under the provision imited to, single-family resident having lead-soldered copper powhich began December 31, 190 somes must have lead levels less famples were collected from we	ed on descending levels of lead or c t necessarily also have the highest l opper Rule mandates a household te ons of the Lead & Copper Rule high nces served by a lead service line, h ipe installed after 1982 but prior to 87. According to the Rule, 90% of t ss than 15 ppb and copper levels les vater that had remained within the b Lead and copper levels below the M	opper, that is, the evel of copper. 90th percenting program for isk sites included aving interior leading is the samples from the samples interior interior in the samples interior in the samples from the samples from the samples interior interior in the samples interior in the samples interior in the samples interior in the samples	entile levels -> For these de, but are not end piping or on lead solder, a high-risk or plumbing for	Ranking 1 2 3 4 5 6 7 8 9 10 11 12 13	14 7 5 5 4 3 3 3 3 2 2 2 2 2	high to low 2.75 0.89 0.52 0.38 0.37 0.36 0.34 0.34 0.29 0.24 0.22 0.21	
Each sample collected for lead separately numbered 1-30 bass he highest level of lead did no * The 1994 Federal Lead & Co substances. Under the provision imited to, single-family resident having lead-soldered copper powhich began December 31, 190 somes must have lead levels less famples were collected from we	ed on descending levels of lead or c t necessarily also have the highest l opper Rule mandates a household te ons of the Lead & Copper Rule high nces served by a lead service line, h ipe installed after 1982 but prior to 87. According to the Rule, 90% of t ss than 15 ppb and copper levels les vater that had remained within the b Lead and copper levels below the M	opper, that is, the evel of copper. 90th percenting program for isk sites included aving interior leading is the samples from the samples interior interior in the samples interior in the samples from the samples from the samples interior interior in the samples interior in the samples interior in the samples interior in the samples	entile levels -> For these de, but are not end piping or on lead solder, a high-risk or plumbing for	Ranking 1 2 3 4 5 6 7 8 9 10 11 12 13 14	high to low 37 14 7 5 5 4 3 3 3 2 2 2 2	high to low 2.75 0.89 0.52 0.38 0.37 0.36 0.34 0.34 0.29 0.24 0.22 0.21 0.19	
Each sample collected for lead separately numbered 1-30 bass he highest level of lead did no "The 1994 Federal Lead & Co substances. Under the provision imited to, single-family resident aving lead-soldered copper powhich began December 31, 190 somes must have lead levels lest amples were collected from we aperiod of at least six hours.	ed on descending levels of lead or c t necessarily also have the highest l opper Rule mandates a household te ons of the Lead & Copper Rule high nces served by a lead service line, h ipe installed after 1982 but prior to 87. According to the Rule, 90% of t ss than 15 ppb and copper levels les vater that had remained within the b Lead and copper levels below the M	opper, that is, the evel of copper. 90th percenting program for isk sites included aving interior leading is the samples from the samples interior interior in the samples interior in the samples from the samples from the samples interior interior in the samples interior in the samples interior in the samples interior in the samples	entile levels -> For these de, but are not end piping or on lead solder, a high-risk or plumbing for	Ranking 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	14 7 5 5 5 4 3 3 3 3 2 2 2 2 2 2 2 2 2 2	10 high to low 2.75 10 0.89 10.52 10.38 10.37 10.36 10.34 10.34 10.30 10.29 10.24 10.22 10.21 10.19 10.16	
Each sample collected for lead separately numbered 1-30 base the highest level of lead did no * The 1994 Federal Lead & Co substances. Under the provision imited to, single-family resident having lead-soldered copper powhich began December 31, 190 homes must have lead levels less samples were collected from was period of at least six hours.	ed on descending levels of lead or c t necessarily also have the highest l opper Rule mandates a household te ons of the Lead & Copper Rule high nces served by a lead service line, h ipe installed after 1982 but prior to 87. According to the Rule, 90% of t ss than 15 ppb and copper levels les vater that had remained within the b Lead and copper levels below the M	opper, that is, the evel of copper. 90th percenting program for isk sites included aving interior leading is the samples from the samples interior interior in the samples interior in the samples from the samples from the samples interior interior in the samples interior in the samples interior in the samples interior in the samples	entile levels -> For these de, but are not end piping or on lead solder, a high-risk or plumbing for	Ranking 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	14 7 5 5 5 4 3 3 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	10 high to low 2.75 10 0.89 10.52 10.38 10.37 10.36 10.34 10.30 10.29 10.24 10.22 10.19 10.16 10.16 10.16	
Each sample collected for lead separately numbered 1-30 bass he highest level of lead did no * The 1994 Federal Lead & Co substances. Under the provision imited to, single-family resident having lead-soldered copper powhich began December 31, 190 somes must have lead levels less famples were collected from we	ed on descending levels of lead or c t necessarily also have the highest l opper Rule mandates a household te ons of the Lead & Copper Rule high nces served by a lead service line, h ipe installed after 1982 but prior to 87. According to the Rule, 90% of t ss than 15 ppb and copper levels les vater that had remained within the b Lead and copper levels below the M	opper, that is, the evel of copper. 90th percenting program for isk sites included aving interior leading is the samples from the samples interior interior in the samples interior in the samples from the samples from the samples interior interior in the samples interior in the samples interior in the samples interior in the samples	entile levels -> For these de, but are not end piping or on lead solder, a high-risk or plumbing for	Ranking 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	14 7 5 5 4 3 3 3 3 2 2 2 2 2 2 2 1 1	10 high to low 2.75 10.89 10.52 10.38 10.37 10.36 10.34 10.30 10.29 10.24 10.22 10.21 10.19 10.16	
Each sample collected for lead separately numbered 1-30 bass he highest level of lead did no he highest level of lead & Coubstances. Under the provision imited to, single-family resident aving lead-soldered copper publich began December 31, 190 nomes must have lead levels lead period of at least six hours. It is a period of at least six hours. It is a period of at lead or copper potential to the corrosive to to th	ed on descending levels of lead or cet necessarily also have the highest lead or cet necessarily also have the highest leads of the Lead & Copper Rule high nees served by a lead service line, hipe installed after 1982 but prior to 87. According to the Rule, 90% of the ss than 15 ppb and copper levels lest that had remained within the backed and copper levels below the Marenabing.	opper, that is, the evel of copper. 90th percesting program for isk sites included aving interior less than 1.3 ppm. Soulding's interior less than 1.3 ppm. Soulding's interior less than 1.3 ppm.	entile levels -> for these de, but are not ead piping or on lead solder, high-risk or plumbing for ater that was	Ranking 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	14 7 5 5 4 3 3 3 3 2 2 2 2 2 2 1 1 1	10 high to low 2.75 10.89 10.52 10.38 10.37 10.36 10.34 10.30 10.29 10.24 10.22 10.19 10.16 10.16 10.15 10.15	
Each sample collected for lead separately numbered 1-30 bass he highest level of lead did no he highest level of lead did no he highest level of lead did no with the provision imited to, single-family resident awing lead-soldered copper publich began December 31, 190 nomes must have lead levels lead levels lead to corrosive to lead or copper pot to corrosive to lead or copper to the provision of the lead or copper to the provision of the lead or copper to the lead levels of the lead levels of the lead levels of the lead or copper to the lead levels of the lead le	ed on descending levels of lead or cet necessarily also have the highest lead or cet necessarily also have the highest leads of the Lead & Copper Rule high nees served by a lead service line, hipe installed after 1982 but prior to 87. According to the Rule, 90% of the ss than 15 ppb and copper levels less that had remained within the belief and copper levels below the March plumbing.	opper, that is, the evel of copper. 90th percentage program for isk sites included aving interior leading is than 1.3 ppm. Soulding's interior leading is than 1.3 ppm. Soulding's interior leading is interior leading in interior leading is interior leading in interior leading is interior leading in interior leading interior leadi	entile levels -> for these de, but are not ead piping or on lead solder, high-risk or plumbing for ater that was	Ranking 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	high to low 37 14 7 5 5 4 3 3 3 2 2 2 2 2 1 1 1	high to low 2.75 0.89 0.52 0.38 0.37 0.36 0.34 0.30 0.29 0.24 0.22 0.21 0.19 0.16 0.16 0.15 0.15	
Each sample collected for lead reparately numbered 1-30 base he highest level of lead did not he highest level of lead did not be stated to single-family residentiating lead-soldered copper people he he have lead levels lead levels lead to single the hours. It is a period of at least six hours. It is to corrosive to lead or copper the hours of corrosive to lead or copper the hours. It is the hours of the hours. It is the hours of	ed on descending levels of lead or cet necessarily also have the highest lead or cet necessarily also have the highest leads of the Lead & Copper Rule high nees served by a lead service line, hipe installed after 1982 but prior to 87. According to the Rule, 90% of the ss than 15 ppb and copper levels less than 45 ppb and copper levels less than 45 ppb and copper levels less than 45 ppb and copper levels below the March 1991.	opper, that is, the evel of copper. 90th percentage program for isk sites included aving interior leading is than 1.3 ppm. Southly be applied to the samples from site indicated we have a site indicated with the samples interior leads a site indicated with the samples in th	entile levels -> for these de, but are not ead piping or on lead solder, a high-risk or plumbing for atter that was	Ranking 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	14 7 5 5 4 3 3 3 3 2 2 2 2 2 1 1 1 1 1 1	high to low 2.75 0.89 0.52 0.38 0.37 0.36 0.34 0.30 0.29 0.24 0.22 0.21 0.19 0.16 0.16 0.15 0.15 0.15	
Each sample collected for lead a reparately numbered 1-30 base he highest level of lead did no he highest level of lead did no he highest level of lead did no he highest level at lead & Combinated to, single-family resident and lead soldered copper purished began December 31, 190 homes must have lead levels level be a period of at least six hours. It is to corrosive to lead or copper high present, elevated levels of women and young children. It components associated with several period with several components associated with several period with several period of the samples were collected from what the several period of at least six hours. It is present, elevated levels of the several period of	ed on descending levels of lead or continuous transfer in the highest lead on the highest lead on the highest lead on the highest lead on the high and the high a	opper, that is, the evel of copper. 90th percentage program for the samples from so that I.3 ppm. muilding's interior of the samples from the samples from the samples from the samples from the samples interior of the sam	entile levels -> For these de, but are not end piping or on lead solder, a high-risk or plumbing for atter that was or pregnant nd Falls is	Ranking 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	high to low 37 14 7 5 5 4 3 3 3 2 2 2 2 1 1 1 1	high to low 2.75 0.89 0.52 0.38 0.37 0.36 0.34 0.34 0.29 0.24 0.22 0.21 0.19 0.16 0.16 0.16 0.15 0.15 0.15 0.14	
Each sample collected for lead separately numbered 1-30 bass he highest level of lead did no highest level for the provision inited to, single-family resident awing lead-soldered copper purished began December 31, 190 homes must have lead levels lead no he highest were collected from we have period of at least six hours. In the period of at least six hours have corrosive to lead or copper women and young children. It components associated with seresponsible for providing highest he highest lead of providing highest lead of the providing highest lead of the highest	ed on descending levels of lead or continuous transfer in the highest lead on the highest lead on the highest lead on the highest lead on the lead & Copper Rule high nees served by a lead service line, high installed after 1982 but prior to 87. According to the Rule, 90% of the set of the service line had remained within the best lead and copper levels below the March plumbing. The plumbing water is primarily the service lines and home plumbing. The quality drinking water, but cannot the remained with the service lines and home plumbing.	opper, that is, the evel of copper. 90th percentage program for the street includes a ving interior leading in the samples from ss than 1.3 ppm. Journal of the control of the samples interior leads a leading in the samples from ss than 1.3 ppm. Journal of the control of the variation of the	entile levels -> for these de, but are not ead piping or on lead solder, a high-risk or plumbing for atter that was or pregnant nd Falls is ety of	Ranking 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	high to low 37 14 7 5 5 4 3 3 3 2 2 2 1 1 1 1 1	high to low 2.75 0.89 0.52 0.38 0.37 0.36 0.34 0.34 0.30 0.29 0.24 0.22 0.21 0.19 0.16 0.16 0.16 0.15 0.15 0.15 0.14 0.12	
Each sample collected for lead separately numbered 1-30 base the highest level of lead did not the highest level family resident inited to, single-family resident inited to, single-family resident to lead some sources and levels level began December 31, 190 homes must have lead levels level from we have lead of the least six hours. In the level of the lead or copper level for the lead or copper level for level level of level for providing high materials used in plumbing comparately used in plumbing comparately seed to lead or plumbing comparately used in plumbing comparately seed to lead on plumbing comparately used in plumbing comparately seed to lead or plumbing comparately seed to lead on the lead of the lead of the level of lead or copper level of the level of lead or copper level of le	ed on descending levels of lead or continuous transfer in the highest lead on the high and the high incess served by a lead service line, high installed after 1982 but prior to 87. According to the Rule, 90% of the sisten 15 ppb and copper levels lest that had remained within the balance that had remained within the balance and copper levels below the Market plumbing. The plumbing water is primarily the service lines and home plumbing. The quality drinking water, but cannot components. When your water has been also as the power of the power water has been described by the highest plumbing.	opper, that is, the evel of copper. 90th percentage program for the samples from so that I.3 ppm. Juilding's interior of the samples from the samples from the samples from the samples from the samples interior of the samples from the samples interior of the samples from the samples interior of the samples from the samples in the control of the samples in the sam	entile levels -> For these de, but are not end piping or on lead solder, a high-risk or plumbing for atter that was or pregnant and Falls is ety of everal hours,	Ranking 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	high to low 37 14 7 5 5 4 3 3 3 2 2 2 2 1 1 1 1	high to low 2.75 0.89 0.52 0.38 0.37 0.36 0.34 0.34 0.30 0.29 0.24 0.22 0.21 0.19 0.16 0.16 0.15 0.15 0.15 0.15 0.14 0.12 0.11	
Each sample collected for lead separately numbered 1-30 base the highest level of lead did not the highest level family resident the highest lead soldered copper powhich began December 31, 19, and highest lead levels lead levels level to the highest lead of the highest lead of the highest level of the highest lev	ed on descending levels of lead or continuous transfer and the highest lead on the highest lead on the highest lead on the highest lead on the high and the high	90th percessing program for isk sites included aving interior le Montana's ban he samples from so that I a ppm. The control the variety of Great to control the variety of 30 seconcerned about 1	entile levels -> For these de, but are not end piping or on lead solder, a high-risk or plumbing for atter that was or pregnant and Falls is ety of everal hours, onds to 2 ead in your	Ranking 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	high to low 37 14 7 5 5 4 3 3 3 2 2 2 1 1 1 1 1	high to low 2.75 0.89 0.52 0.38 0.37 0.36 0.34 0.34 0.30 0.29 0.24 0.22 0.21 0.19 0.16 0.16 0.16 0.15 0.15 0.15 0.14 0.12	
Each sample collected for lead separately numbered 1-30 base whe highest level of lead did not the highest level family resident in the highest lead soldered copper playhich began December 31, 19, highest lead levels lead levels lead levels lead to corrosive to lead or copper the highest lead of the least six hours. It is present, elevated levels of women and young children. It components associated with stresponsible for providing high materials used in plumbing on you can minimize the potentiminutes before using water for	ed on descending levels of lead or continuous transfer in the highest lead on the high and the high incess served by a lead service line, high installed after 1982 but prior to 87. According to the Rule, 90% of the sisten 15 ppb and copper levels lest that had remained within the balance that had remained within the balance and copper levels below the Market plumbing. The plumbing water is primarily the service lines and home plumbing. The quality drinking water, but cannot components. When your water has been also as the power of the power water has been described by the highest plumbing.	90th percessing program for isk sites included aving interior le Montana's ban he samples from so that I a ppm. The control the variety of Great to control the variety of 30 seconcerned about 1	entile levels -> For these de, but are not end piping or on lead solder, a high-risk or plumbing for atter that was or pregnant and Falls is ety of everal hours, onds to 2 ead in your	Ranking 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	14 7 5 5 5 4 3 3 3 3 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	high to low 2.75 0.89 0.52 0.38 0.37 0.36 0.34 0.34 0.30 0.29 0.24 0.22 0.21 0.19 0.16 0.16 0.15 0.15 0.15 0.15 0.14 0.12 0.11	
Each sample collected for lead separately numbered 1-30 base the highest level of lead did not the lead substances. Under the provision in the lead soldered copper purchase the lead soldered copper purchase must have lead levels lead in period of at least six hours. In the lead or copper to lead or copper to lead or copper lead to corrosive to lead or copper lead to components associated with seven and young children. It components associated with seven and you can minimize the potential minutes before using water for water, you may wish to have methods, and steps you can the	ed on descending levels of lead or continuous transfer and the highest levels of the Lead & Copper Rule high neess served by a lead service line, high installed after 1982 but prior to 87. According to the Rule, 90% of the service line, had copper levels less than 15 ppb and copper levels less than 15 ppb and copper levels less than 4 ppb and copper levels less than 4 ppb and copper levels below the Market and the plumbing. The quality drinking water is primarily to the plumbing of the lead exposure by flushing your or drinking or cooking. If you are copyour water tested. Information on leake to minimize exposure is available.	90th percessing program for risk sites included aving interior leading is than 1.3 ppm. The control the variety of Great to control the variety of Great to control the variety of the samples from materials as the City of Great to control the variety of the var	entile levels -> for these de, but are not end piping or on lead solder, high-risk or plumbing for atter that was or pregnant and Falls is ety of everal hours, onds to 2 ead in your water, testing	Ranking 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	14 7 5 5 5 4 3 3 3 3 3 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1	high to low 2.75 0.89 0.52 0.38 0.37 0.36 0.34 0.34 0.30 0.29 0.24 0.22 0.21 0.19 0.16 0.16 0.15 0.15 0.15 0.15 0.12 0.11 0.11 0.11 0.11	
Each sample collected for lead separately numbered 1-30 base the highest level of lead did not the lead to, single-family reside the having lead-soldered copper purchase must have lead levels level before were collected from we approach of at least six hours. In the provided of at least six hours are corrosive to lead or copper to the lead or copper level before the level of lead or copper level to the level of le	ed on descending levels of lead or continuous transfer and the highest levels of the Lead & Copper Rule high neess served by a lead service line, high installed after 1982 but prior to 87. According to the Rule, 90% of the service line, had copper levels less than 15 ppb and copper levels less than 15 ppb and copper levels less than 4 ppb and copper levels less than 4 ppb and copper levels below the Market and the plumbing. The quality drinking water is primarily to the plumbing of the lead exposure by flushing your or drinking or cooking. If you are copyour water tested. Information on leake to minimize exposure is available.	90th percessing program for risk sites included aving interior leading is than 1.3 ppm. The control the variety of Great to control the variety of Great to control the variety of the samples from materials as the City of Great to control the variety of the var	entile levels -> for these de, but are not end piping or on lead solder, high-risk or plumbing for atter that was or pregnant and Falls is ety of everal hours, onds to 2 ead in your water, testing	Ranking 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	high to low 37	high to low 2.75 0.89 0.52 0.38 0.37 0.36 0.34 0.30 0.29 0.24 0.22 0.21 0.19 0.16 0.15 0.15 0.15 0.15 0.15 0.14 0.12 0.11 0.07 0.07	
Each sample collected for lead separately numbered 1-30 base the highest level of lead did not the lead substances. Under the provision limited to, single-family resident having lead-soldered copper put high began December 31, 190 homes must have lead levels lead in period of at least six hours. In a period of at least six hours. In the lead or copper lead to corrosive to lead or copper lead to components associated with seresponsible for providing high materials used in plumbing copyou can minimize the potentiminutes before using water for water, you may wish to have methods, and steps you can the	ed on descending levels of lead or continuous transfer and the highest levels of the Lead & Copper Rule high neess served by a lead service line, high installed after 1982 but prior to 87. According to the Rule, 90% of the service line, had copper levels less than 15 ppb and copper levels less than 15 ppb and copper levels less than 4 ppb and copper levels less than 4 ppb and copper levels below the Market and the plumbing. The quality drinking water is primarily to the plumbing of the lead exposure by flushing your or drinking or cooking. If you are copyour water tested. Information on leake to minimize exposure is available.	90th percessing program for risk sites included aving interior leading is than 1.3 ppm. The control the variety of Great to control the variety of Great to control the variety of the samples from materials as the City of Great to control the variety of the var	entile levels -> for these de, but are not end piping or on lead solder, high-risk or plumbing for atter that was or pregnant and Falls is ety of everal hours, onds to 2 ead in your water, testing	Ranking 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	high to low 37 14 7 5 5 4 3 3 3 3 2 2 2 2 2 1 1 1 1 1 <1 <1	high to low 2.75 0.89 0.52 0.38 0.37 0.36 0.34 0.34 0.30 0.29 0.24 0.22 0.21 0.19 0.16 0.16 0.15 0.15 0.15 0.15 0.11 0.11 0.07 0.07 0.07	
Each sample collected for lead separately numbered 1-30 base the highest level of lead did not the lead substances. Under the provision in the lead soldered copper purchase the lead soldered copper purchase must have lead levels lead in period of at least six hours. In the lead or copper to lead or copper to lead or copper lead to corrosive to lead or copper lead to components associated with seven and young children. It components associated with seven and you can minimize the potential minutes before using water for water, you may wish to have methods, and steps you can the	ed on descending levels of lead or continuous transfer and the highest levels of the Lead & Copper Rule high neess served by a lead service line, high installed after 1982 but prior to 87. According to the Rule, 90% of the service line, had copper levels less than 15 ppb and copper levels less than 15 ppb and copper levels less than 4 ppb and copper levels less than 4 ppb and copper levels below the Market and the plumbing. The quality drinking water is primarily to the plumbing of the lead exposure by flushing your or drinking or cooking. If you are copyour water tested. Information on leake to minimize exposure is available.	90th percessing program for risk sites included aving interior leading is than 1.3 ppm. The control the variety of Great to control the variety of Great to control the variety of the samples from materials as the City of Great to control the variety of the var	entile levels -> for these de, but are not end piping or on lead solder, high-risk or plumbing for atter that was or pregnant and Falls is ety of everal hours, onds to 2 ead in your water, testing	Ranking 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	high to low 37 14 7 5 5 4 3 3 3 2 2 2 2 1 1 1 1 1 <1 <1 <1	high to low 2.75 0.89 0.52 0.38 0.37 0.36 0.34 0.30 0.29 0.24 0.22 0.21 0.19 0.16 0.16 0.15 0.15 0.15 0.15 0.11 0.12 0.11 0.07 0.07	

Contaminant	Likely Source o	f Contamination	Unit of	MCL	MCLG	Date	Level	Violatio
(Table I. continued)			Measurement			Sampled	Detected	(yes/no
Turbidity	soil runoff		NTU	TT = 1 NTU maximum	0	throughout the year,	0.14 maximum	no
T . 1.: 312 1				HIAXIIIIUIII		every four	for 2010	
Turbidity is a measure of the cloudiness of the water. It is						hours	on 4/5/10	
monitored because it is a good			NTU	TT < 0.3 NTU	0	throughout	< 0.3	no
indicator of the effectiveness				95% of the		the year,	100% of	[
of the water filtration system.				time		every four	the time	
Radionuclides			<u> </u>			hours		.l
Beta/photon emitters	decay of natura deposits	I and man-made	mrem/yr	4	0	2/23/99	2.7 (± 2.7) pCi/l gross beta	no
Gross Alpha	erosion of natur		pCi/l	15	0	7/28/08	3.8	no
Radium 226 + Radium 228	erosion of natur	ral deposits	pCi/l	5	0	7/28/08	0.1	no
Disinfectants					.,,			
Chlorine	water additive t microbes		ppm	MRDL=4	MRDLG=4	continuously	0.03 to 1.88	no
Chloramines [†]	water additive u	ised to control	ppm	MRDL=4	MRDLG=4	continuously	0.03 to 1.88	no
† The primary disinfectant us		is free chlorine. T	hrough the addit	tion of ammonia	monochlora	mine is forme	d just before	the water
exits the treatment plant. Mono	chloramine does	not dissipate as re	eadily as free chl	orine and thus he	los in mainta	ining disinfe	ction at the f	ar edges of
the distribution system. Compa	red to free chlori	ne monochloram	ine is a weak oxi	dizer and so min	imizes disinf	ection hy-pro	duct formati	on Total
chlorine levels were checked a	the treatment nl	ant and throughou	t the distribution	system on a dail	v basis durin	g 2010 and a	t no time exc	eeded the
MRDL or the MRDLG. Levels								
Disinfection By-Product		Pr.		<u>, , , , , , , , , , , , , , , , , , , </u>	- 11			F
TTHMs	by-product of d	rinking water	ppb	80	N/A	quarterly	see table	no
(total trihalomethanes)	disinfection	mang maser	PPO	run. ann. avg.‡	1,,,,,	quartori	below	,,,,
HAA5s	by-product of d	rinking water	ppb	60	N/A	quarterly	see table	no
(five haloacetic acids)	disinfection			run. ann. avg.‡			below	
TTHM Summary	2 nd quarter	3 rd quarter	4 th quarter	1 st quarter	2 nd quarte	er 3 rd qu	ıarter 4	th quarter
sampling period →	2009	2009	2009	2010	2010	20		2010
site # 1	33.8	59.2	37.1	33.3	41.4	52	2.6	47.1
site # 2	39.8	62.2	44.9	37.6	49.4	52	2.5	52.1
site # 3	34.1	59.1	39.6	34.4	40.5	52	2.5	42.9
site # 4	34.1	65.2	45.6	37.8	55.2	55	.6	54.1
quarterly average	35.5	61.4	41.8	35.8	46.6	53	.3	49.1
[‡] running annual average	41.8	42.2	42.8	43.6	46.4	44	.4	46.2
	,	highest	compliance leve	el for $2010 = 46.4$		range = 33.3	to 55.6	
Some people who drink water of	ontaining trihalo					e problems w	ith their live	r, kidneys,
or central nervous systems, and	may have an inc	reased risk of get	ing cancer.					•
HAA5 Summary	2 nd quarter	3 rd quarter	4 th quarter	1 st quarter	2 nd quarte	er 3 rd qu	arter 4	th quarter
sampling period $ ightarrow$	2009	2009	2009	2010	2010	20	i i	2010
site # 1	26.0	53.0	40.0	36.0	40.1	62		52.2
site # 2	36.4	47.0	34.5	36.4	45.5	43	.2	23.0
site # 3	26.0	51.0	41.0	33.0	43.4	60	.7	51.4
site # 4	35.4	49.0	28.2	31.0	62.7	48	.4	36.4
quarterly average	31.0	50.0	35.9	34.1	47.9	53	.6	40.8
‡running annual average	32.1	34.5	36.1	37.8	42.0	42	.9	44.1
		highest	compliance leve	el for $2010 = 44.1$		range = 23.0	to 62.7	
Some people who drink water of	ontaining haloac	etic acids in exces	s of the MCL ov	er many years m	ay have an ir	ncreased risk	of getting ca	ncer.
Total Organic Carbon (TOC) p	ovides a medium	for the formation	of disinfection	by-products, whi	ch include T	THMs and H.	AA5s. Remo	ving TOC
at the water treatment plant is in								
	iver Water TOC	Treat	ed Water TOC	% Rem	oval Require	ed %	Removal Ac	hieved
1/19/10	3.0 ppm		2.3 ppm		15.0		23.3	
2/08/10	3.1 ppm		2.4 ppm				22.6	
3/15/10	2.8 ppm		2.4 ppm		15.0		14.3	

2.4 ppm 2.3 ppm 2.3 ppm 2.2 ppm 2.3 ppm 2.2 ppm 2.2 ppm 2.8 ppm 2.8 ppm 3/15/10 15.0 14.3 4/12/10 15.0 17.9 15.0 17.9 2.8 ppm 5/10/10 3.5 ppm 3.0 ppm 2.9 ppm 15.0 37.1 6/07/10 15.0 23.3 7/19/10 24.1 15.0 8/09/10 3.0 ppm 3.1 ppm 3.1 ppm 3.0 ppm 15.0 26.7 9/20/10 2.2 ppm 2.4 ppm 2.3 ppm 2.2 ppm 10/28/10 15.0 22.6 15.0 15.0 25.8 26.7 11/15/10 12/13/10

Secondary Contaminants (Table I. continued)						
Secondary Parameter	Date Sampled	Level Detected	Unit of Measurement	SMCL**		
Calcium	2/22/10	37	ppm	N/A		
Magnesium	2/22/10	12	ppm	N/A		
Sodium	2/22/10	18	ppm	< 20 recommended		
Total Hardness	1/22/08	141	ppm	N/A		
Total Alkalinity	2/22/10	115	ppm	N/A		
Conductivity	2/22/10	434	micromhos/cm	N/A		
рН	2/22/10	7.4	pH units	6.5 - 8.5		
Langelier Index	2/22/10	-0.3	N/A	N/A		

** Secondary Maximum Contaminant Level (SMCL) - a chemical contaminant in excess of this amount may affect aesthetic qualities and public acceptance. SMCLs are non-enforceable standards.

Table II. Unregulated Contaminants Detected							
Unregulated contaminant	Unregulated contaminant monitoring helps EPA to determine where certain contaminants occur and whether it needs to regulate those contaminants.						
Radionuclides	Radionuclides Date Sampled Level Detected Unit of Measurement Significance						
Radon-222	1/09/95	47 (± 37)	pCi/l	see comments below			

About radon: There is currently no federal regulation for radon in drinking water. Radon is a radioactive gas that you can't see, taste or smell. It is found all over the U.S. Radon can move up through the ground and into a home through cracks and holes in the foundation. Radon can build up to high levels in all types of homes. Radon can also get into indoor air when released from tap water from showering, washing dishes, and other household activities. Compared to radon entering the home through soil, radon entering the home through tap water will in most cases be a small source of radon in indoor air. Radon is a known human carcinogen. Breathing air containing radon can lead to lung cancer. Drinking water that contains radon may also cause increased risk of stomach cancer. If you are concerned about radon in your home, test the air in your home. Testing is inexpensive and easy. Fix your home if the level of radon in your air is 4 picocuries per liter of air (4pCi/l) or higher. There are simple ways to fix a radon problem that aren't too costly. For additional information, call your state radon program or call EPA's Radon Hotline (1-800-SOS-RADON).

Inorganic Contaminants	Date Sampled	Level Detected	Unit of Measurement	SMCL	
Bicarbonate	1/16/07	147	ppm	N/A	
Chloride			ppm	250	
Potassium			ppm	N/A	
Silica 2/22/10		18.0	ppm	N/A	
Strontium 2/22/10		200 ppb		N/A	
Sulfate	2/22/10	44	ppm	500	

The following three disinfection by-products are volatile organics that are not regulated individually but are included in total trihalomethanes:

Contaminant	Date Sampled	Level Detected	Unit of Measurement
Bromodichloromethane	6/03/10	6.4	ppb
Chlorodibromomethane	6/03/10	0.49	ppb
Chloroform	6/03/10	42	ppb

	Table III. Regulated	l Contaminants Not D	etected			
Radionuclides – tested 7/28	/08					
Note: testing for uranium wa	s not required because the result for gros	s alpha did not exceed the MCL of 15	5 pCi/l (see Table 1)			
Microbiological Contamina	ants – tested throughout 2010, 70 routine	distribution system samples per mon	th			
Total Coliform Bacteria		Escherichia coli				
Inorganic Contaminants –	all tested 2/22/10 unless otherwise indica	ited				
Antimony	Cadmium	Iron	Nickel			
Asbestos (11/24/03)	Chromium	Lead	Selenium			
Barium	Copper	Manganese	Thallium			
Beryllium	Cyanide (1/30/06)	Mercury	-			
Volatile Organic Contamin	ants (VOCs) – all tested 6/03/10 unless	otherwise indicated				
Benzene	1,1-Dichloroethene	Styrene	Toluene			
Carbon tetrachloride	cis-1,2-Dichloroethene	Tetrachloroethene	Vinyl chloride			
Chlorobenzene	trans-1,2-Dichloroethene	1,2,4-Trichlorobenzene	Xylenes (ortho-, meta-, para-)			
1,2-Dichlorobenzene	Methylene chloride 1,1,1-Trichloroethane 1,2-Dibromo-3-chloropropane					
1,4-Dichlorobenzene	1,2-Dichloropropane	1,1,2-Trichloroethane	Total BTEX			
1,2-Dichloroethane	Ethylbenzene	Trichloroethene				

<u> </u>	SOCs) – all tested 5/12/08, 6/23/08 and 8/18/08 unless other	Hexachlorobenzene
2,4,-D	Dibromochloropropane (DBCP) (6/13/05)	
2,4,5-TP (Silvex)	Dinoseb	Hexachlorocyclopentadiene (HEX)
Alachlor	Diquat (deferred)	Lindane (gamma-BHC)
Atrazine	Dioxin (2,3,7,8-TCDD) (deferred)	Methoxychlor
Benzo(a)pyrene (PAH)	Endothall (deferred)	Oxamyl (Vydate)
Carbofuran	Endrin	Polychlorinated biphenyls (PCB's) (8/08/05)
Chlordane	Ethylene dibromide (EDB) (6/13/05)	Pentachlorophenol
Dalapon	Glyphosate (6/13/05)	Picloram (Tordon)
Di(2-ethylhexyl)adipate	Heptachlor	Simazine
Di(2-ethylhexyl)phthalate	Heptachlor epoxide	Toxaphene

	Table IV. Un	regulated C	ontamir	ants Not De	tected		
Unregulated contaminan	t monitoring helps EPA to dete	rmine where certain	n contaminant	s occur and whether	it needs to	regulate those contaminants.	
Inorganic Contaminant	s – all tested 2/22/10 unless other	nerwise indicated					
Aluminum	Carbonate (1/16/07)	Molybdenum		Silver		Zinc	
Volatile Organic Contai	minants (VOCs) – all tested 6/	/03/10 unless otherv	vise indicated				
Bromobenzene	1,3-Dichlorobenze	ene	1,2,3-Trichlo	ropropane	n-Pro	pylbenzene	
Bromoform	I,1-Dichloroethan	e	Bromochloro	methane	sec-B	utylbenzene	
Bromomethane	1,3-Dichloropropa	ine	n-Butylbenze	ene	tert-B	utylbenzene	
1,2-Dibromoethane	2,2-Dichloropropa	ine	Dichlorodiflu	ioromethane	1,2,3	Trichlorobenzene	
Chloroethane	1,1-Dichloroprope	ene	Trichlorofluo	romethane	1,2,4	Trimethylbenzene	
Chloromethane	cis-1,3-Dichloropr	ropene	Hexachlorob	Hexachlorobutadiene		1,3,5-Trimethylbenzene	
2-Chlorotoluene	trans-1,3-Dichloro	ans-1,3-Dichloropropene		Isopropylbenzene		Methyl tert-Butyl Ether (MTBE)	
4-Chlorotoluene	hlorotoluene 1,1,1,2-Tetrachloroethane		p-Isopropyltoluene				
Dibromomethane 1,1,2,2-Tetra		pethane Naphthalene		<u> </u>			
Synthetic Organic Cont	aminants (SOCs) – all tested :	5/12/08, 6/23/08 and	d 8/18/08 unle	ss otherwise indicate	d		
Aldrin	3-Hydroxycarbofu	ıran	Aldicarb (Ter	mik)	Dichl	orprop	
Butachlor	Methomyl		Aldicarb Sulfone		Meth	Methiocarb	
Carbaryl	Metolachlor		Aldicarb Sulf	oxide			
Dicamba	Metribuzin		Acifluorfen (8/08/05)				
Dieldrin	Propachlor		2,4-DB				
Unregulated Contamina	nt Monitoring Rule 1 (UCM	R1) Contaminants	- all tested 10	0/23/01, 1/02/02, 4/08	3/02 and 7	//01/02	
Perchlorate	MTBE		2,4-Dinitrotoluene		EPTC	EPTC	
DCPA mono-acid	Nitrobenzene		2,6-Dinitrotoluene		Molir	ate	
DCPA di-acid	Acetochlor		4-4'-DDE		Terba	Terbacil	
Unregulated Contamina	nt Monitoring Rule 2 (UCM)	R2) Contaminants	- all tested 3/	10/08, 6/30/08, 9/15/	08 and 12	/15/08	
Dimethoate	2,2',4,4',5,5'-HBB	BDE-99		BDE-153		2,4,6-Trinitrotoluene (TNT)	
Terbufos Sulfone	BDE-47	BDE-100		1,3-Dinitrobenzene		RDX	

In Summary, analysis of Great Falls drinking water revealed no violations during 2010. Although some constituents were detected, the Environmental Protection Agency considers water to be safe at these levels. Furthermore, MCLs are set very stringently. To put this into perspective, for a given regulated contaminant a person would have to drink 2 liters of water every day at the MCL level for a lifetime for there to be a one-in-a-million chance of having a corresponding adverse health effect.

Important additional information regarding source water monitoring:

During 2007 Great Falls collected monthly water samples directly from the Missouri River intake and had them analyzed for *Cryptosporidium*, a microbial pathogen found in surface water throughout the United States. Although the filtration aspect of our water treatment process removes *Cryptosporidium* it cannot guarantee 100% removal. Our monitoring indicated the presence of these organisms in our source water during the months of February, April, July, September, October and December. Current test methods do not allow us to determine whether the organisms are dead or if they are capable of causing disease. Ingestion of *Cryptosporidium* may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people are at greater risk of developing life-threatening illness. We encourage immuno-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. *Cryptosporidium* must be ingested to cause disease, and it may be spread through means other than drinking water.